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 1. Document ID: US 20030143151 A1

L4: Entry 1 of 51

File: PGPB

Jul 31, 2003

PGPUB-DOCUMENT-NUMBER: 20030143151

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030143151 A1

TITLE: Combustion process for synthesis of carbon nanomaterials from liquid hydrocarbon

PUBLICATION-DATE: July 31, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|--------------------|----------|-------|---------|---------|
| Diener, Michael D. | Denver | CO | US | |
| Alford, J. Michael | Lakewood | CO | US | |
| Nabity, James | Arvada | CA | US | |

US-CL-CURRENT: 423/447.3

ABSTRACT:

The present invention provides a combustion apparatus for the production of carbon nanomaterials including fullerenes and fullerene soot. Most generally the combustion apparatus comprises one or more inlets for introducing an oxygen-containing gas and a hydrocarbon fuel gas in the combustion system such that a flame can be established from the mixed gases, a droplet delivery apparatus for introducing droplets of a liquid hydrocarbon feedstock into the flame, and a collector apparatus for collecting condensable products containing carbon nanomaterials that are generated in the combustion system. The combustion system optionally has a reaction zone downstream of the flame. If this reaction zone is present the hydrocarbon feedstock can be introduced into the flame, the reaction zone or both.

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [MMC](#) | [Draw Desc](#) | [Image](#) 2. Document ID: US 20030094422 A1

L4: Entry 2 of 51

File: PGPB

May 22, 2003

PGPUB-DOCUMENT-NUMBER: 20030094422

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030094422 A1

TITLE: Poultry processing water recovery and re-use process

PUBLICATION-DATE: May 22, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|------------------|--------------|-------|---------|---------|
| Perkins, Michael | Plantation | FL | US | |
| Phillips, Joe | Poquoson | VA | US | |
| Gann, Dale | Littleton | CO | US | |
| Miller, Richard | Mt. Juliet | TN | US | |
| McGrane, William | Ormond Beach | FL | US | |

US-CL-CURRENT: 210/764

ABSTRACT:

The inventions of the present disclosure are directed to processes designed to recover water used in certain aspects of the processing of poultry, treat the recovered water to remove solids, fats, oils and greases, animal proteins and pathogenic organisms and to reuse the treated water for poultry processing operations. The processes described herein reduce bacteria and microorganisms associated with the poultry and reuse water. The present disclosure can be employed with an approach that includes unexpected positive results of reacting ozone and chlorine with water being treated for reuse to generate hypochlorous acid and/or other effective biocides. Ozone reacts with fats, oils, and greases, dissolved in the reuse water, to produce specific surface-active agents and surfactants which reduce the surface tension of the water which it is dissolved. The combination of these surface-active agents and surfactants and the biocides cause an extraordinary release and destruction of bacteria from the poultry carcass as well as the reuse water.

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

3. Document ID: US 20020049295 A1

L4: Entry 3 of 51

File: PGPB

Apr 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020049295

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020049295 A1

TITLE: Die to obtain pieces of plastic materials molded by injection, projection or blowing processes, manufacturing method and repairing method of said die

PUBLICATION-DATE: April 25, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|-------------------------|--------------|-------|---------|---------|
| Pertusio, Julio Eduardo | Buenos Aires | AR | | |
| Escudero, Jorge Alberto | Buenos Aires | AR | | |

US-CL-CURRENT: 528/10

ABSTRACT:

The present invention describes a die to manufacture pieces of plastic materials, molded by injection, projection or blowing processes that does not need end finishing during its construction, and that does not need to employ additional demolding agents during its whole useful life to release the objects molded. Said die is specially useful to obtain pieces of plastic materials that must be painted or must be dealt superficially with the purpose of being employed in various industries, such as the automobile industry, electro-domestic accessories manufacturing, communications, computers, or decoration, etc. This die is also specially useful to obtain pieces that must be adhered in an efficient and substantially permanent way to others as are the soles for the industrial manufacturing of shoes and of sports shoes.

There are also described the methods to manufacture or repair the dies, together with a

process to prepare the silicon rubber by addition, herein referred to as SRBA, which is modified to be useful in said methods.

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn Desc](#) | [Image](#)

4. Document ID: US 6485613 B1

L4: Entry 4 of 51

File: USPT

Nov 26, 2002

US-PAT-NO: 6485613

DOCUMENT-IDENTIFIER: US 6485613 B1

TITLE: Batch-continuous countercurrent mass transfer process

DATE-ISSUED: November 26, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP | CODE | COUNTRY |
|---|------------|-------|-----|------|---------|
| Goorden; Josephus Johannes Petrus Maria | Roosendaal | | | | NL |

US-CL-CURRENT: 202/158, 203/DIG.11, 203/DIG.16, 210/295, 210/634, 261/114.1, 261/114.2,
261/114.4, 261/114.5, 261/128, 261/5, 585/800

ABSTRACT:

Mass transfer process, in which, in at least two contact stages, and at least two liquid or gaseous phases are brought into contact with one another, at least one component being transferred between the phases and the phases moving countercurrently. The flow through at least one of the contact stages is batchwise for one phase and continuous for another phase. The phases flow through contact stages which are formed by trays in a column, which trays are opened periodically so that the phase which flows through the column in a batchwise manner flows to the next tray.

31 Claims, 17 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 15

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KIMC](#) | [Drawn Desc](#) | [Image](#)

5. Document ID: US 6402855 B1

L4: Entry 5 of 51

File: USPT

Jun 11, 2002

US-PAT-NO: 6402855

DOCUMENT-IDENTIFIER: US 6402855 B1

TITLE: Method and apparatus for pressure washing

DATE-ISSUED: June 11, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP | CODE | COUNTRY |
|---------------------------|------------|-------|-----|------|---------|
| Damron; Michael D. | San Jose | CA | | | |
| Garcia; Eduardo M. | Wilder | ID | | | |
| Eliason; Scott | Troutdale | OR | | | |
| Driscoll, Jr.; Rudolph W. | Menlo Park | CA | | | |

US-CL-CURRENT: 134/10; 134/110, 134/111, 210/521, 210/532.1

ABSTRACT:

The present invention relates to methods and apparatus for removing a contaminant from an object. According to one aspect, an apparatus for washing an object which has contaminant is arranged to recover the contaminant. The apparatus includes a support floor that supports an object to be washed and a basin mounted below the support floor. The basin is divided into a plurality of chambers which include a clean water chamber, a secondary water chamber, an oil containment chamber, and a contaminated water receiving chamber which receives water which is contaminated after it is flowed over the object to remove the contaminant. The contaminated water received in the contaminated water receiving chamber must pass sequentially through the oil containment chamber and the secondary water chamber prior to entering the clean water chamber. The clean water chamber is flowably coupled to the secondary water chamber by a first flowpath near the operational water level, while the secondary water chamber is flowably coupled to the oil containment chamber by a second flowpath near the bottom of the basin. The oil containment chamber is flowably coupled to the contaminated water receiving chamber by a third flowpath near the operational water level. The apparatus also includes a first pump which draws and filters water from the secondary water chamber and returns the filtered water to the clean water chamber.

16 Claims, 26 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 19

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□ 6. Document ID: US 6153553 A

L4: Entry 6 of 51

File: USPT

Nov 28, 2000

US-PAT-NO: 6153553

DOCUMENT-IDENTIFIER: US 6153553 A

TITLE: Process for the polymerization of alpha olefins using a new aluminophosphate support

DATE-ISSUED: November 28, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|----------|-------|----------|---------|
| Auburn; Pamela R. | Kingwood | TX | | |
| Pecoraro; Theresa A. | Danville | CA | | |

US-CL-CURRENT: 502/208; 502/104, 502/105, 502/414, 502/439, 502/514

ABSTRACT:

Novel catalysts are provided for the polymerization of olefins such as ethylene. These catalysts comprise a novel amorphous aluminophosphate comprising, on a microlevel, sheets of aluminophosphate as well as spheres of aluminophosphate plus a chromium compound. These new catalysts are surprisingly active; result in more co-monomer incorporation than prior art catalysts and reduce the amount of low molecular weight material in the product.

8 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

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7. Document ID: US 6120614 A

L4: Entry 7 of 51

File: USPT

Sep 19, 2000

US-PAT-NO: 6120614

DOCUMENT-IDENTIFIER: US 6120614 A

TITLE: Method and apparatus for pressure washing

DATE-ISSUED: September 19, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------------|------------|-------|----------|---------|
| Damron; Michael D. | San Jose | CA | | |
| Garcia; Eduardo M. | Wilder | ID | | |
| Eliason; Scott | Troutdale | OR | | |
| Driscoll, Jr.; Rudolph W. | Menlo Park | CA | | |

US-CL-CURRENT: 134/10; 134/102.1, 134/109, 134/182

ABSTRACT:

The present invention relates to methods and apparatus for removing a contaminant from an object. According to one aspect, an apparatus for washing an object which has contaminant is arranged to recover the contaminant. The apparatus includes a support floor that supports an object to be washed and a basin mounted below the support floor. The basin is divided into a plurality of chambers which include a clean water chamber, a secondary water chamber, an oil containment chamber, and a contaminated water receiving chamber which receives water which is contaminated after it is flowed over the object to remove the contaminant. The contaminated water received in the contaminated water receiving chamber must pass sequentially through the oil containment chamber and the secondary water chamber prior to entering the clean water chamber. The clean water chamber is flowably coupled to the secondary water chamber by a first flowpath near the operational water level, while the secondary water chamber is flowably coupled to the oil containment chamber by a second flowpath near the bottom of the basin. The oil containment chamber is flowably coupled to the contaminated water receiving chamber by a third flowpath near the operational water level. The apparatus also includes a first pump which draws and filters water from the secondary water chamber and returns the filtered water to the clean water chamber.

53 Claims, 26 Drawing figures

Exemplary Claim Number: 38

Number of Drawing Sheets: 19

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[PINC](#) | [Draw Desc](#) | [Image](#) 8. Document ID: US 6096213 A

L4: Entry 8 of 51

File: USPT

Aug 1, 2000

US-PAT-NO: 6096213

DOCUMENT-IDENTIFIER: US 6096213 A

** See image for Certificate of Correction **

TITLE: Puncture-resistant polyolefin membranes

DATE-ISSUED: August 1, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------------|-------------|-------|----------|---------|
| Radovanovic; Philip D. | Minneapolis | MN | | |
| Thomas; Scott D. | Woodbury | MN | | |

US-CL-CURRENT: 210/500.36; 210/500.27, 210/500.42, 264/41, 264/48, 428/319.3

ABSTRACT:

Briefly, in one aspect, the present invention provides puncture resistant microporous materials made of melt-processable semi-crystalline thermoplastic polymers. The microporous materials can be produced at relatively high rates and at low cost. Films and multilayer constructions made of the microporous materials and methods of making microporous materials also are provided.

23 Claims, 0 Drawing figures

Exemplary Claim Number: 13

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9. Document ID: US 6043181 A

L4: Entry 9 of 51

File: USPT

Mar 28, 2000

US-PAT-NO: 6043181

DOCUMENT-IDENTIFIER: US 6043181 A

TITLE: Process for the polymerization of alpha olefins using a new aluminophosphate support

DATE-ISSUED: March 28, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|----------|-------|----------|---------|
| Auburn; Pamela R. | Kingwood | TX | | |
| Pecoraro; Theresa A. | Danville | CA | | |

US-CL-CURRENT: 502/104; 502/105, 502/208, 502/210, 502/305, 502/414, 502/439

ABSTRACT:

Novel catalysts are provided for the polymerization of olefins such as ethylene. These catalysts comprise a novel amorphous aluminophosphate comprising, on a microlevel, sheets of aluminophosphate as well as spheres of aluminophosphate plus a chromium compound. These new catalysts are surprisingly active; result in more co-monomer incorporation than prior art catalysts and reduce the amount of low molecular weight material in the product.

10 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [HTML](#) | [Draw Desc](#) | [Image](#)

10. Document ID: US 5869587 A

L4: Entry 10 of 51

File: USPT

Feb 9, 1999

US-PAT-NO: 5869587

DOCUMENT-IDENTIFIER: US 5869587 A

TITLE: Process for the polymerization of alpha olefins using a new aluminophosphate support

DATE-ISSUED: February 9, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|----------|-------|----------|---------|
| Auburn; Pamela R. | Kingwood | TX | | |
| Pecoraro; Theresa A. | Danville | CA | | |

US-CL-CURRENT: 526/233; 502/208, 502/439, 526/104, 526/106, 526/154, 526/226, 526/348,
526/348.2, 526/348.4, 526/348.5, 526/348.6, 526/348.7, 526/351, 526/352, 526/88

ABSTRACT:

Novel catalysts are provided for the polymerization of olefins such as ethylene. These catalysts comprise a novel amorphous aluminophosphate comprising, on a microlevel, sheets of aluminophosphate as well as spheres of aluminophosphate plus a chromium compound. These new catalysts are surprisingly active; result in more co-monomer incorporation than prior art catalysts and reduce the amount of low molecular weight material in the product.

10 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

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 11. Document ID: US 5656152 A

L4: Entry 11 of 51

File: USPT

Aug 12, 1997

US-PAT-NO: 5656152

DOCUMENT-IDENTIFIER: US 5656152 A

TITLE: Water washing to remove salts

DATE-ISSUED: August 12, 1997

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|--------|-------|----------|---------|
| McLaughlin; Bruce D. | Sewell | NJ | | |
| Wu; Yiting-Mei | Sewell | NJ | | |

US-CL-CURRENT: 208/95; 208/177, 208/178, 208/208R, 208/251R, 208/254R, 208/47,
208/DIG.1, 585/950, 95/149, 95/230, 95/232, 95/233, 95/234, 95/235

ABSTRACT:

A continuous water washing process for removing salts from refinery process streams is disclosed. The salt and salt precursor content of a process stream is determined, and iterative calculations made to ensure an aqueous phase forms downstream of the water injection point with a salt and ion concentration within acceptable limits. Preferably chemical speciation calculations are used to check for corrosive, transient aqueous phases intermediate the point of water injection and the process outlet.

17 Claims, 0 Drawing figures

Exemplary Claim Number: 1

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[Image](#) [Drawn Desc](#) [Image](#) 12. Document ID: US 5642548 A

L4: Entry 12 of 51

File: USPT

Jul 1, 1997

US-PAT-NO: 5642548

DOCUMENT-IDENTIFIER: US 5642548 A

TITLE: Apparatus and method for wet processing traveling textile material

DATE-ISSUED: July 1, 1997

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------------|-----------------|-------|----------|---------|
| Osborn; Charles Anthony | Fort Oglethorpe | GA | | |

US-CL-CURRENT: 8/152; 68/178, 68/27

ABSTRACT:

In a textile wet processing machine and process wherein an indeterminate length of a textile fabric or other material is washed or otherwise subjected to a wet treatment operation by transportation sequentially through a plurality of processing chambers, the yardage distribution of the fabric among the chambers is controlled by sensing the entrance of the leading end of the fabric into each successive chamber, then measuring separately the actual yardage of fabric entering each chamber in sequence, comparing at least periodically the yardage of fabric instantaneously residing within each respective chamber and, in the event an imbalance in fabric distribution is detected, briefly stopping and then restarting lifter reel assemblies and jet nozzle assemblies by which the fabric is transported so as to correct the imbalance in fabric distribution.

18 Claims, 7 Drawing figures
 Exemplary Claim Number: 1,13
 Number of Drawing Sheets: 7

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [EPOC](#) | [Drawn Desc](#) | [Image](#)

13. Document ID: US 5603233 A

L4: Entry 13 of 51

File: USPT

Feb 18, 1997

US-PAT-NO: 5603233

DOCUMENT-IDENTIFIER: US 5603233 A

TITLE: Apparatus for monitoring and controlling the operation of a machine for washing articles

DATE-ISSUED: February 18, 1997

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|----------|-------|----------|---------|
| Erickson; Timothy K. | Lena | IL | | |
| O'Brien; Gary R. | Freeport | IL | | |
| Reeve; Ian F. | Rockford | IL | | |

US-CL-CURRENT: 68/12.02

ABSTRACT:

A machine for washing articles is provided with a wash process sensor that is capable of measuring a plurality of physical parameters that relate to the progress of a washing procedure. The wash process sensor also monitors the changes in the measured parameters and calculates a value that represents the degree of cleanliness or dirtiness of the articles being washed. In one embodiment, the wash process sensor also directly controls a plurality of devices, such as motors, heaters, dispensers and valves, to directly control the washing process.

20 Claims, 16 Drawing figures
 Exemplary Claim Number: 1
 Number of Drawing Sheets: 14

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [EPOC](#) | [Drawn Desc](#) | [Image](#)

14. Document ID: US 5439655 A

L4: Entry 14 of 51

File: USPT

Aug 8, 1995

US-PAT-NO: 5439655

DOCUMENT-IDENTIFIER: US 5439655 A

TITLE: Apparatus for washing and sterilizing rubber plugs or the like which may be used in pharmaceutical containers

DATE-ISSUED: August 8, 1995

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------|-------|-------|----------|---------|
| Fedegari; Fortunato | Pavia | | | IT |

US-CL-CURRENT: 422/297; 134/102.3, 134/159, 422/299, 422/302, 68/24, 68/58

ABSTRACT:

Apparatus for washing, rinsing, sterilizing and drying delicate components such as plugs for pharmaceutical use, or the like, formed by an autoclave chamber containing a substantially cylindrical rotating drum or basket with two helical members extending along the axis of the cylindrical basket, connecting an inlet opening with an outlet opening and projecting inside the basket, each being provided with a rounded internal edge and terminating in chutes emerging inside the outlet opening, the helical members thus formed enabling the plugs to be mixed when the basket rotates in one direction and to be unloaded from the basket when the latter rotates in the opposite direction, the rotating basket also being provided with a circumferential toothed rim which engages a gear wheel actuated by drive means to impart a rotary movement to the same and having inside at least one pipe arranged parallel to the axis of the cylinder and provided with spray nozzles directed toward the plugs present inside the basket to allow washing and, where necessary, silicone-coating of the plugs. The autoclave chamber is also provided with inlets for steam, for hot and cold air, and with vacuum connections to allow, in addition to the washing, silicone-coating and sterilization operations, also more or less intense drying of the plugs.

18 Claims, 12 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 9

| | | | | | | | | | | | | |
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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KOMC | Drawn Desc | Image |
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 15. Document ID: US 5370509 A

L4: Entry 15 of 51

File: USPT

Dec 6, 1994

US-PAT-NO: 5370509

DOCUMENT-IDENTIFIER: US 5370509 A

** See image for Reexamination Certificate **

TITLE: Sealless rotodynamic pump with fluid bearing

DATE-ISSUED: December 6, 1994

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------------|----------------|-------|----------|---------|
| Golding; Leonard A. R. | Moreland Hills | OH | | |
| Smith; William A. | Lyndhurst | OH | | |
| Wade; Warren F. | Orange Village | OH | | |

US-CL-CURRENT: 417/423.1; 415/900, 417/423.7, 604/151

ABSTRACT:

A sealless centrifugal blood pump is provided in which a rotatable impeller is

supported in a pump housing by fluid bearings during operation. Rotational movement of the impeller is accomplished with an inverted motor for magnetically driving of the impeller and maintenance of the axial running position of the impeller relative to the housing. In an alternative embodiment, the axis of the rotor housing is radially displaced relative to the axes of drive element of the motor and the motor housing.

41 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 6

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMM](#) | [Draw Desc](#) | [Image](#)

16. Document ID: US 5324177 A

L4: Entry 16 of 51

File: USPT

Jun 28, 1994

US-PAT-NO: 5324177
DOCUMENT-IDENTIFIER: US 5324177 A
** See image for Reexamination Certificate **

TITLE: Sealless rotodynamic pump with radially offset rotor

DATE-ISSUED: June 28, 1994

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------------|----------------|-------|----------|---------|
| Golding; Leonard A. R. | Moreland Hills | OH | | |
| Smith; William A. | Lyndhurst | OH | | |

US-CL-CURRENT: 417/423.1; 415/900, 417/423.7, 604/151

ABSTRACT:

A sealless centrifugal blood pump is provided in which a rotatable impeller is supported in a pump housing by fluid bearings during operation. Rotational movement of the impeller is accomplished with an inverted motor for magnetically driving of the impeller and maintenance of the axial running position of the impeller relative to the housing. In an alternative embodiment, the axis of the rotor housing is radially displaced relative to the axes of drive element of the motor and the motor housing.

41 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 6

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMM](#) | [Draw Desc](#) | [Image](#)

17. Document ID: US 5271116 A

L4: Entry 17 of 51

File: USPT

Dec 21, 1993

US-PAT-NO: 5271116
DOCUMENT-IDENTIFIER: US 5271116 A

TITLE: Laundry machines and/or methods of controlling the same

DATE-ISSUED: December 21, 1993

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------------|----------|-------|----------|---------|
| Williams; John Julian A. | Auckland | | | NZ |
| Shacklock; Frank W. | Auckland | | | NZ |
| Ensor; David J. | Auckland | | | NZ |

US-CL-CURRENT: 8/159; 68/12.05, 68/12.21

ABSTRACT:

A method of providing a desired water level in a laundry machine by energising the motor of the machine intermittently to produce changes in velocity of the spin tub, agitator and a load of clothes in the spin tub.

The changes in velocity are measured and from the measurements the mass of the load of clothes is determined. A desired volume of water necessary for an optimum wash of the load of clothes is then determined and this volume of water is admitted to the washing container of the laundry machine.

27 Claims, 7 Drawing figures
 Exemplary Claim Number: 1
 Number of Drawing Sheets: 6

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [RMM](#) | [Draw Desc](#) | [Image](#)

18. Document ID: US 5208931 A

L4: Entry 18 of 51

File: USPT

May 11, 1993

US-PAT-NO: 5208931

DOCUMENT-IDENTIFIER: US 5208931 A

TITLE: Laundry machines and/or methods of controlling the same

DATE-ISSUED: May 11, 1993

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------------|----------|-------|----------|---------|
| Williams; John Julian A. | Auckland | | | NZ |
| Shacklock; Frank W. | Auckland | | | NZ |
| Ensor; David J. | Auckland | | | NZ |

US-CL-CURRENT: 8/159; 68/12.04, 68/23.7

ABSTRACT:

A method, control device and apparatus for providing a desired water level in a laundry machine (1) by energizing the motor (10) of the machine intermittently to produce changes in velocity of the spin tub (3), agitator (4) and a load of clothes in the spin tub. The changes in velocity are measured and from the measurements the mass of the load of clothes is determined. A desired volume of water necessary for an optimum wash of the load of clothes is then determined and this volume of water is admitted (17) to the washing container (2) of the laundry machine.

26 Claims, 7 Drawing figures
 Exemplary Claim Number: 1
 Number of Drawing Sheets: 6

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [RMM](#) | [Draw Desc](#) | [Image](#)

□ 19. Document ID: US 5148566 A

L4: Entry 19 of 51

File: USPT

Sep 22, 1992

US-PAT-NO: 5148566

DOCUMENT-IDENTIFIER: US 5148566 A

TITLE: Continuous washing apparatus

DATE-ISSUED: September 22, 1992

INVENTOR-INFORMATION:

| NAME | CITY | STATE ZIP CODE | COUNTRY |
|-----------------------|----------------------------------|----------------|---------|
| Nishibayashi; Seitaro | Minamiohtsuka, Toshima-ku, Tokyo | | JP |

US-CL-CURRENT: 15/3.21; 15/21.2, 15/3.15, 15/3.19, 15/3.2

ABSTRACT:

A continuous washing apparatus is provided which comprises an elongate washing vessel 1 having an inlet 2 for receiving objects to be washed at one end thereof. An outlet 3 is provided for discharging objects W to be washed at the other end thereof. The elongate washing vessel is arranged in an inclined manner so that the inlet is located downwardly and the outlet is located upwardly. A conveyor is disposed within the washing vessel for conveying the objects from the area adjacent to the inlet toward the area adjacent to the outlet. A washing structure 14 15 is provided for washing the objects. The conveyor includes a screw body 4 rotatably mounted on the washing vessel 1, and a drive mechanism for driving the screw body. The screw body includes a continuous length of fin 5 which extends helically around the longitudinal axis of the washing vessel. Brush members 6 are attached to the fin for brushing the objects and a central bore extends through the central portion of the screw body along the longitudinal axis thereof.

4 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 4

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|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments |
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□ 20. Document ID: US 5140842 A

L4: Entry 20 of 51

File: USPT

Aug 25, 1992

US-PAT-NO: 5140842

DOCUMENT-IDENTIFIER: US 5140842 A

TITLE: Washing machine having optical sensor for detecting light permeability of detergent solution

DATE-ISSUED: August 25, 1992

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|----------|-------|----------|---------|
| Kiuchi; Mitsuyuki | Nara | | | JP |
| Imahashi; Hisayuki | Kawanish | | | JP |
| Matsui; Shoichi | Kawanish | | | JP |

US-CL-CURRENT: 68/12.02

ABSTRACT:

A washing machine apparatus includes an optical sensor for detecting a light permeability of a liquid contained in a washer tank. The time duration of a washing cycle is determined in accordance with two variables. The first variable is a saturating time in which the detected light permeability becomes relatively constant. The second variable is the overall light permeability change during the washing cycle at the saturation time. The saturating time period and the light permeability change are fuzzy processed to obtain a remaining time duration of the washing cycle.

12 Claims, 17 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 12

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| <u>L3</u> | L2 and (plastic material) | 42 | <u>L3</u> |
| <u>L2</u> | L1 and washing | 1013 | <u>L2</u> |
| <u>L1</u> | varying time | 10164 | <u>L1</u> |

END OF SEARCH HISTORY